



RX-4088PT

Block Copolymerized Trifunctional Co-polyhydroxyalkyl Silicone Oil-Platinum Edition

2024/09/13 Draft. **PDS**

Description

RX-4088PT is a block copolymerized trifunctional co-polyhydroxyalkyl silicone oil-platinum edition. When used with the PT-60 platinum catalyst complex, it is suitable for various fibers, especially for treating synthetic fibers like nylon. It provides characteristics such as loftiness, smoothness, a downy feel, elastic touch, instant water absorption, and quick drying.

It is recommended for use in processes like pad dyeing and softening in dye baths.

Characteristics

- 1% temperature resistant up to 95°C, returning to a light blue transparent liquid after
- Permissible pH range: 3.5~11.5
- Compatible with cationic and anionic softeners
- Suitable for secondary processing such as re-adhesion
- RX-4088 (90%), certified by D4 notary unit with a detected content of 2180PPM
- Exhibits antibacterial, antifungal, and antistatic effects

Properties

Appearance Transparent to hazy yellowish liquid

Active ingredient(%) 90.0%

pH(1%Solution,25°C) 7.5±1.0

Ionic type Cationic

Diluent Water

- **Modified cationic, can be mixed with most anionic components**
- **RX-4088PT without any water-based solvents added whatsoever**

Safety

This document does not contain the safety information required for the product. Please read the safety data sheet for this product before use.

Storage & packaging

When stored in its originally sealed packaging at 5°C - 40°C, this product may be stored for up to 8 months from its manufacturing date. Comply with the storage instructions marked on the packaging. Once past this expiration date, TAI COUNTY CHEMICAL no longer guarantees that the product meets the sales specifications.

Product comes in 120kg blue HDPE drums.

Applications

- RX-4088PT is recommended to be diluted with water at a 40% ratio using the following procedure (using a paddle mixer):

RX-4088	:100 KG
Water(1)	:20 KG
Water(2)	:70 KG
Water(3)	:35 KG
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Total	:450 KG

Processing

1. Add 100KG of RX-4088PT product and slowly introduce 20KG of water (1), stirring until the liquid becomes gradually thickened (first turning point).
2. After the first turning point, add 70KG of water (2) and continue stirring until the consistency transitions from thickened to reduced viscosity resembling water (second turning point).
3. Following the second turning point, add 35KG of water (3) and continue stirring until thoroughly and uniformly mixed. This is the dilution method for a 40% emulsion.
4. **Diluted to 40%, the appearance is transparent to slightly turbid emulsion. If a transparent appearance is required, please add an appropriate amount of water-based solvents such as IPA, Sorbitol, etc.**
5. **Filter before packaging and use. RX-4088PT can be paired with PT-60 and tested according to the usage instructions.**
6. If using RX-4088PT (40%) alone, the recommended dosage is 2-5%.

(Depending on the actual conditions, you can adjust the usage amount.)
(A small amount of glacial acetic acid can be added to adjust the pH to 6.5-7.5 for use)

The data provided above is to the best of our knowledge and experience and is without any warranty. Users should thoroughly test any application and independently conclude satisfactory performance before use.

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PT-60

Platinum Catalyst Complex

2024/09/12 Draft. PDS

Description

PT-60 is a platinum catalyst complex primarily used in addition-type silicone reactions, which are the most important and common applications. In wool and textile applications, PT-60 needs to be paired with reactive RX-4088PT to achieve a stiffening effect on wool fibers.

Storage & packaging

When stored in its originally sealed packaging at 5°C - 40°C, this product may be stored for up to 8 months from its manufacturing date. Comply with the storage instructions marked on the packaging. Once past this expiration date, TAI COUNTY CHEMICAL no longer guarantees that the product meets the sales specifications.

Product comes in 20KG HDPE grey drums.

Characteristics

- When used with RX-4088PT, it gives fabrics a stiff and smooth feel
- Excellent reaction speed
- Plays a key role in silicone polymer reactions involving vinyl and hydrogen groups

Applications

- In textile applications, it needs to be used with RX-4088PT
- As a reactive additive, it is not recommended to use it alone

Properties

Appearance	Milky white liquid
Ingredient	Emulsion Containing Platinum Catalyst
pH	7.0±1.0

Processing

(Depending on the actual conditions, you can adjust the usage amount.)

Caution: This product should be kept away from heavy metals, sulfur-containing compounds, and certain amine compounds to prevent platinum catalyst poisoning, which can impede curing.

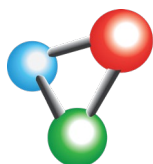
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<<RX-4088PT + PT-60 Reactive Wool Softener Usage Instructions>>

Usage Method:

1. Before use, dilute RX-4088PT to 40% following the instructions in the RX-4088PT manual.
2. According to the recommended formulation of the agents:

Recommended Formulation		
RX-4088PT(40%)	10	g
PT-60	2	g

3. RX-4088PT (40%) + PT-60 mixture (prepare before use, and use within 8 hours)
4. Padding process: Use 15~20 g/L

Please adjust according to your company's actual conditions and needs, and be sure to conduct small-scale testing before use.

Caution: This product is highly reactive. If possible, use it within the expiration period upon receipt and pay close attention to the storage area environment.